

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

April 14, 2004

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTENTION:

Mr. Steve Lund

NCDOT Coordinator

Dear Sir:

SUBJECT:

Nationwide Permit 12, 23 and 33 Applications for the proposed replacement of Bridge No. 704 on SR 1319 (Johnston School Road) over tributary to Mill Creek, in Buncombe County. Federal Aid Project No. BRZ-1319(11), State Project No. 8.2844101, TIP No. B-3616.

Please find enclosed three copies of the project planning report for the above referenced project. NCDOT proposes to replace Bridge No. 740 on the existing alignment with a 119-foot triple barrel, 7.0 x 8.0-foot reinforced concrete box culvert. Two of the barrels (barrels 1 and 3) will be silled to simulate the natural width of the stream. Traffic will be maintained using two signed off-site detours consisting of US 19-23-74N, NC 63, SR 1315, and SR 1319 with a length of 4.8 miles, and US 19-23-74S, Dearview Road, Bear Creek Road, and SR 1319 with a length of 2.1 miles. There are no jurisdictional wetlands within the project area.

Impacts to Waters of the United States

<u>Permanent Impacts</u>: Tributary to Mill Creek will be impacted by the proposed project. Construction of the proposed project will result in total of 0.02 acres of permanent fill in surface water. In total, 119 feet of existing stream channel will be permanently impacted by this project.

<u>Temporary Impacts</u>: Temporary dewatering is necessary for culvert installation. The temporary dewatering will occur at the elevation and location as shown in the permit drawings. Diking materials and methods will be determined during construction by the contractor. Temporary impervious dikes and associated ponding and dewatering will result in 0.01 acres of temporary impacts affecting 55 feet of existing stream channel.

Utilities

Currently the City of Asheville has a 6" water line made of cast iron, a 16" water line made of ductile iron, and a 15" gravity sewer line made of ductile iron in the project boundaries. The 16"

WEBSITE: WWW.NCDOT.ORG

water lines will be in conflict with the proposed box culvert and will have to be relocated. The 16" pipe is currently located south of the existing bridge. NCDOT will relocate this utility to the edge of the right of way on the south side of the bridge, requiring approximately 200 feet of new pipe to be laid.

The section of stream at the utility crossing location is approximately 2 feet wide. The most environmentally sound method for this utility installation will be the use of an open cut. Though bore and jack-type construction is often used in environmentally sensitive areas, the open cut method will be less environmentally damaging in this case due to the small size of the stream.

Bridge Demolition

Bridge No. 740 in Buncombe County was built in 1976. The structure is one 26-foot span, completely spanning the tributary to Mill Creek. The height of the structure above the streambed is 8 feet. The structure of the existing bridge is composed of a timber deck on steel girders. The superstructure is composed of Yount masonry abutments. This structure can be removed without dropping any of its components into the tributary to Mill Creek. However, the removal of the substructure and installation of a culvert will create disturbance in the streambed. All measures will be taken to avoid any temporary fill from entering Waters of the U.S.; Best Management Practices for Bridge Demolition and Removal will be implemented.

Culvert Construction

Bridge No. 740 will be replaced with a triple-barrel 7.0 x 8.0-foot reinforced concrete box culvert. Two of the barrels (barrels 1 and 3) will be silled to simulate the natural width of the stream. Construction of the culvert will require dewatering of the natural stream channel of tributary to Mill Creek.

Construction Sequence:

- 1. Construct Silling Basin (34 cubic yards)
- 2. Construct Impervious Dikes
- 3. Install 24 inch Temporary Pipe
- 4. Construct Culvert
- 5. Remove Temporary Dikes and Pipe
- 6. Complete Roadway

Restoration Plan:

Following culvert completion, all material used in the construction of the temporary impervious dikes and temporary pipe will be removed. The stream will then be restored to its pre-project contours. The temporary impact area associated with the construction is expected to recover naturally, since the natural streambed and plant material will not be dramatically impacted.

Temporary Dewatering

There will be 55 feet of temporary impacts in tributary to Mills Creek from the construction of the proposed culvert for the replacement of Bridge No. 470. The area of temporary impacts will result from dewatering for the installation of the triple-barrel 7.0 x 8.0 foot reinforced concrete box culvert in the existing stream channel.

It is assumed that the contractor will begin construction of the proposed culvert shortly after the date of availability for the project. The Let date is August 17, 2004 with a date of availability of September 13, 2004.

Water Resources

The water resource impacted for project B-3616 is a tributary to Mill Creek, a tributary of the French Broad River. Unnamed tributaries receive the same classification as the named streams into which they flow. The North Carolina Department of Environment and Natural Resources classifies Mill Creek as "C". Class "C" waters are suitable for secondary recreation, fishing, wildlife, fish and aquatic life propagation and survival, and agriculture. The classification date and index number for this portion of the creek are 7/1/73, 6-79.

There are no Outstanding Resource Waters (ORW), High Quality Waters (HQW), WS-I, or WS-II within 1 mile upstream or downstream of the project study area (DEM 1993, DWO 2003b).

According to the North Carolina Wildlife Resource Commission, Mill Creek is not considered to be trout waters. No special restrictions are required for in-water work other than those outlined in the NCDOT guidelines, "Best Management Practices for Protection of Surface Waters".

Mill Creek is not designated as a National Wild and Scenic River or a State Natural and Scenic River.

Federally Protected Species

Plants and animals with federal classifications of Endangered, Threatened, Proposed Endangered, and Proposed Threatened are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of January 29, 2003, the Fish and Wildlife Service (FWS) lists twelve federally protected species for Buncombe County (Table 1). The Biological Conclusions for each of these species remain valid.

Biological conclusions of "No Effect" were reached for all listed species as reflected in the attached CE dated November 2002. We have updated the information for the three species that had suitable habitat within the project area: spotfin chub, Appalachian elktoe and oyster mussel. A site search for the spotfin chub was done by NCDOT biologist Mr. Neil Medlin September 12, 2002 and no individuals were found. In June 2001 NCDOT staff biologists surveyed for the Appalachian elktoe and oyster mussel with a conclusion of "No Effect".

Table 1. Federally-Protected Species for Buncombe County

Common Name	Scientific Name	Status	Biological conclusion		
Bog turtle	Clemmys muhlenbergii	$T(S/A)^{T}$	N/A		
Carolina northern flying squirrel	Glaucomys sabrinus coloratus	Е	No Effect		
Eastern cougar	Puma concolor couguar	Е	No Effect		
Gray bat	Myotis grisescens	E**	No Effect		
Spotfin chub	Hybopsis monacha	T*	No Effect		
Appalachian elktoe	Alasmidonta raveneliana	Е	No Effect		
Oyster mussel	Epioblasma capsaeformis	E***	No Effect		
Bunched arrowhead	Sagittaria fasciculata	E*	No Effect		
Mountain sweet pitcher plant	Sarracenia jonesii	E*	No Effect		
Spreading avens	Geum radiatum	Е	No Effect		
Virginia gniraca	Spingagavinginiang	Т	May Affect, Not Likely to		
Virginia spiraea	Spiraea virginiana	1	Adversely Affect		
Rock gnome lichen	Gymnoderma lineare	E	No Effect		

KEY:

Status Definition

E -A taxon "in danger of extinction throughout all or a significant portion of its range."

T -A taxon "likely to become endangered within the foreseeable future throughout all or a significant

portion of its range."

T(S/A) -Threatened due to similarity of appearance (e.g., American alligator)--a species that is threatened due to similarity of appearance with other rare species and is listed for its protection. These species are not biologically endangered or threatened and are not subject to Section 7 consultation.

*Historic record - the species was last observed in the county more than 50 years ago.

Regulatory Approvals

Section 404 Permit: It is anticipated that the temporary dewatering of Mill Creek will be authorized under Section 404 Nationwide Permit 33 (Temporary Construction Access and Dewatering). We are, therefore, requesting the issuance of a Nationwide Permit 33 authorizing the temporary dewatering of Mill Creek. It is also anticipated that the relocation of utilities will be authorized under Section 404 Nationwide Permit 12 (Utility Line Activities; Activities required for the construction, maintenance, and repair of utility lines and associated facilities). All other aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR § 771.115(b). The NCDOT requests that these activities be authorized by a Nationwide Permit 23 (FR number 10, pages 2020-2095; January 15, 2002).

Section 401 Permit: We anticipate 401 General Certifications numbers 3403 and 3366 will apply to this project. In accordance with 15A NCAC 2H .0501(a) we are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their records.

We anticipate that comments from the North Carolina Wildlife Resources Commission (NCWRC) will be requested prior to authorization by the Corps of Engineers. By copy of this letter and attachment, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers.

TVA: This project is located within the jurisdiction of the Tennessee Valley Authority (TVA). Therefore, an approval under Section 26a of the TVA Act will be required.

^{**}Incidental/migrant record - the species was observed outside of its normal range or habitat.

^{***}Historic record - obscure and incidental record.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Michael Turchy at maturchy@dot.state.nc.us or (919) 715-1468.

Sincerely,

Gregory J. Thorpe, Ph.D., Environmental Management Director Project Development and Environmental Analysis Branch

cc:

Mr. John Hennessy, Division of Water Quality (2 copies)

Ms. Marella Buncick, USFWS

Ms. Marla Chambers, NCWRC

Mr. Harold Draper, TVA

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. John F. Sullivan III, P. E., FHWA

Mr. J. J. Swain, P.E., Division Engineer

Mr. Roger Bryan, DEO

Mr. David Franklin, USACE, Wilmington (Cover Letter only)

Mr. John Wadsworth, P.E., Project Development Consultant Engineer

Offic	e Us	e Only:			Form Version May 2002
USA	CE A	Action ID No.		DWQ No	O
		(If any particular item is not app	olicable to this proje	ct, please er	nter "Not Applicable" or "N/A".)
I.	Pr	ocessing			
	1.	Check all of the approval(s) ☐ Section 404 Permit ☐ Section 10 Permit ☐ 401 Water Quality Certification		is project:	Riparian or Watershed Buffer Rules Isolated Wetland Permit from DWQ
	<u>2.</u>	Nationwide, Regional or Ge	eneral Permit Nu	mber(s) R	equested: Nationwide 12, 23 and 33
	3.	If this notification is solely is not required, check here:		oecause w	ritten approval for the 401 Certification
	4.		y availability wi		ion Program (NCWRP) is proposed for P prior to submittal of PCN), complete
	5.	2 2	in a North Card	olina Divi	twenty coastal counties (listed on page ision of Coastal Management Area of her details), check here:
II.	Ap	oplicant Information			
	1.	Owner/Applicant Information Name: North Cambridge Mailing Address: 1548 Mai	rolina Departme		
		Telephone Number: 919-73 E-mail Address:	33-7844	_ Fax N	Number: 919-715-1501
	2.	must be attached if the Ager Name: Name: N Company Affiliation:	nt has signatory a	authority f	copy of the Agent Authorization letter for the owner/applicant.)
		Telephone Number:			Number:

III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

1.	Name of project: Replacement of Bridge 740 over tributary to Mill Creek on SR 1319 (Johnston's School Rd) in Asheville.
2.	T.I.P. Project Number or State Project Number (NCDOT Only): B-3616
3.	Property Identification Number (Tax PIN): N/A
4.	Location County: Buncombe Nearest Town: Asheville Subdivision name (include phase/lot number): Directions to site (include road numbers, landmarks, etc.): Located on SR 1319 between intersections with Rash Rd. and Southern Railway, over Tributary to Mills Creek
5.	Site coordinates, if available (UTM or Lat/Long): N35° 35.118', W82° 36.582' (Note – If project is linear, such as a road or utility line, attach a sheet that separately lists the coordinates for each crossing of a distinct waterbody.)
6.	Property size (acres): N/A
7.	Nearest body of water (stream/river/sound/ocean/lake): Tributary to Mills Creek
8.	River Basin: French Broad (Note – this must be one of North Carolina's seventeen designated major river basins. The River Basin map is available at http://h2o.enr.state.nc.us/admin/maps/ .)
9.	Describe the existing conditions on the site and general land use in the vicinity of the project at the time of this application <u>Urban local</u> , with residential land dominant.
10.	Describe the overall project in detail, including the type of equipment to be used:

Replacing single span bridge with a triple-barrel culvert using heavy mechanical highway construction equipment.
11. Explain the purpose of the proposed work: <u>Investigations by the Bridge Maintenance Unit indicate that rehabilitation of the existing structures is not feasible due to age and deteriorated conditions. Bridge No. 740 carries a sufficiency rating of 50.7 out of a possible 100. This structure is considered functionally obsolete. Replacement of the bridge will result in safer and more efficient traffic operations.</u>
Prior Project History If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWQ Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with construction schedules. N/A
Future Project Plans Are any future permit requests anticipated for this project? If so, describe the anticipated work

V. Fu

IV.

Are any future permit requests anticipated for this project? If so, describe the anticipated wo	rk,
and provide justification for the exclusion of this work from the current application.	
N/A	

VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. The applicant must also provide justification for these impacts in Section VII below. All proposed impacts, permanent and temporary, must be listed herein, and must be clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) must be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

Provide a written description of the proposed impacts: <u>There will be no impacts to jurisdictional wetlands from the replacement of Bridge No. 740</u>. However, construction around the bridge site will result in a small amount of permanent and temporary surface water fill due to dewatering and the installation of a triple-barrel culvert.

1. Individually list wetland impacts below:

Wetland Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Located within 100-year Floodplain** (yes/no)	Distance to Nearest Stream (linear feet)	Type of Wetland***

^{*} List each impact separately and identify temporary impacts. Impacts include, but are not limited to: mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams, separately list impacts due to both structure and flooding.

List the total acreage (estimated) of all	existing wetlands on the property: 0
Total area of wetland impact proposed:	0

2. Individually list all intermittent and perennial stream impacts below:

Stream Impact		Length of		Average Width	Perennial or
Site Number	Type of Impact*	Impact	Stream Name**	of Stream	Intermittent?
(indicate on map)		(linear feet)		Before Impact	(please specify)
1 (12+02-L-)	Permanent	119.0 feet	Trib. to Mills Creek	2.0 feet	Perennial
1 (12+02-L-)	Temporary	55.0 feet	Trib. to Mills Creek	2.0 feet	Perennial

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: culverts and associated rip-rap, dams (separately list impacts due to both structure and flooding), relocation (include linear feet before and after, and net loss/gain), stabilization activities (cement wall, rip-rap, crib wall, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included.

Cumulative impacts (linea	ar distance	in feet) to a	ll streams	on site	: 119.0	feet	of	permanent
surface water impact and	55.0 feet	of temporar	y surface	water	impact	Cumı	ılati	ve impacts
total 174.0 linear feet.								

^{** 100-}Year floodplains are identified through the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM), or FEMA-approved local floodplain maps. Maps are available through the FEMA Map Service Center at 1-800-358-9616, or online at http://www.fema.gov.

^{***} List a wetland type that best describes wetland to be impacted (e.g., freshwater/saltwater marsh, forested wetland, beaver pond, Carolina Bay, bog, etc.) Indicate if wetland is isolated (determination of isolation to be made by USACE only).

^{**} Stream names can be found on USGS topographic maps. If a stream has no name, list as UT (unnamed tributary) to the nearest downstream named stream into which it flows. USGS maps are available through the USGS at 1-800-358-9616, or online at www.usgs.gov. Several internet sites also allow direct download and printing of USGS maps (e.g., www.topozone.com, <a href="https://

3. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.) below:

Open Water Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Name of Waterbody (if applicable)	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)
	1 1 1 1 1 1 1	<u> </u>		

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: fill, excavation, dredging, flooding, drainage, bulkheads, etc.

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1 0110 0100000							
If construction of a pond is proposed, associate	ed wetland and stream impacts should be						
included above in the wetland and stream impact sections. Also, the proposed pond shoul							
be described here and illustrated on any maps incl	uded with this application.						
Pond to be created in (check all that apply):	uplands stream wetlands						
Describe the method of construction (e.g., dar	n/embankment, excavation, installation of						
draw-down valve or spillway, etc.): N/A							
D 1 C 1/ 1' / 1							
Proposed use or purpose of pond (e.g., livestock	watering, irrigation, aesthetic, trout pond,						
local stormwater requirement, etc.):							
Size of watershed draining to pond:	Expected pond surface area:						

VII. Impact Justification (Avoidance and Minimization)

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts.

The selected design was chosen because a good off-site detour is available, it has fewer impacts on adjacent residential properties, and it will create comparatively lower environmental impacts.

VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on March 9, 2000, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors

including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCWRP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at http://h2o.enr.state.nc.us/ncwetlands/strmgide.html.

1.	Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions
	and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet)
	of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view,
	preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a
	description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.
	N/A

2. Mitigation may also be made by payment into the North Carolina Wetlands Restoration Program (NCWRP). Please note it is the applicant's responsibility to contact the NCWRP at (919) 733-5208 to determine availability and to request written approval of mitigation prior to submittal of a PCN. For additional information regarding the application process for the NCWRP, check the NCWRP website at http://h2o.enr.state.nc.us/wrp/index.htm. If use of the NCWRP is proposed, please check the appropriate box on page three and provide the following information:

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Environmental Documentation (required by DWQ)

Total

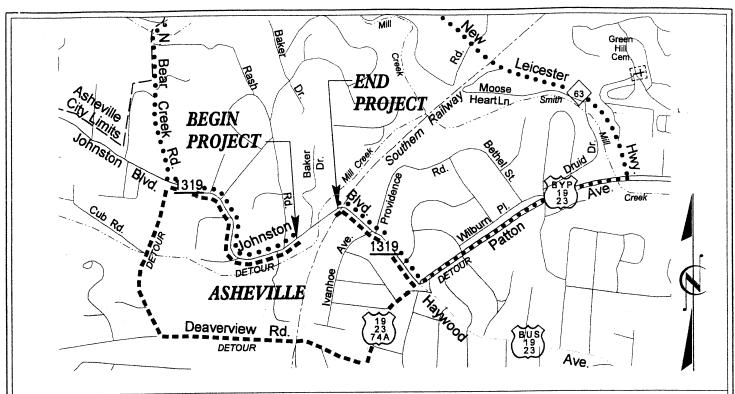
IX.

(federal	/state) land?	e an expenditure o	of public (federal/	state) funds or	the use of public	
requirer Note: coordin	nents of the Na If you are not ator at (919) 733-	require preparational or North C sure whether a N 5083 to review cur	arolina Environm EPA/SEPA docur	ental Policy Ao ment is require	ct (NEPA/SEPA)? ed, call the SEPA	
copy of	the NEPA or SE	review been finaliz PA final approval lo		earinghouse? If	so, please attach a	
Propos	ed Impacts on R	iparian and Water	rshed Buffers (req	uired by DWQ	2)	
required justification and mu- map, w Regiona	I state and local ation for these impost be clearly iden- whether or not in	buffers associated pacts in Section VII tifiable on the acco	with the project. [above. All propompanying site pland to the buffers.	The applicant osed impacts mun. All buffers mun. Correspondence	map all impacts to must also provide ast be listed herein, nust be shown on a be from the DWQ be included at the	
(Neuse) Water S	, 15A NCAC 21 Supply Buffer Rec	3 .0259 (Tar-Paml: juirements), or other	ico), 15A NCAC	2B .0250 (Ran	NCAC 2B .0233 dleman Rules and)? ving information:	
Identify the square feet and acreage of impact to each zone of the riparian buffers. <u>If</u> buffer mitigation is required calculate the required amount of mitigation by applying the buffer multipliers.						
	Zone*	Impact (square feet)	Multiplier	Required Mitigation		
1		1			ı	

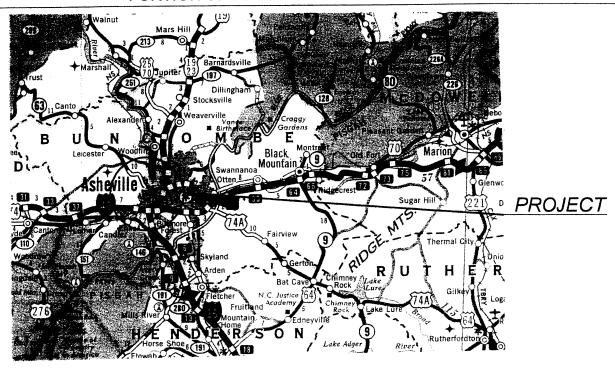
^{*} Zone 1 extends out 30 feet perpendicular from near bank of channel; Zone 2 extends an additional 20 feet from the edge of Zone 1.

	Stormwater (required by DWQ)
	Describe impervious acreage (both existing and proposed) versus total acreage on the site Discuss stormwater controls proposed in order to protect surface waters and wetlands downstream from the property.
	Sewage Disposal (required by DWQ)
	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility.
	Violations (required by DWQ)
	Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules? Yes ☐ No ☒
	Is this an after-the-fact permit application? Yes ☐ No ☒
•	Other Circumstances (Optional):
	It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits or work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).

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PORTION OF BUNCOMBE COUNTY MAP



PORTION OF STATE MAP

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BUNCOMBE COUNTY

8.2844101 (B-3616)

REPLACEMENT BRIDGE NO.740

AND APPROACHES ON SR 1319 (JOHNSTON BLVD)

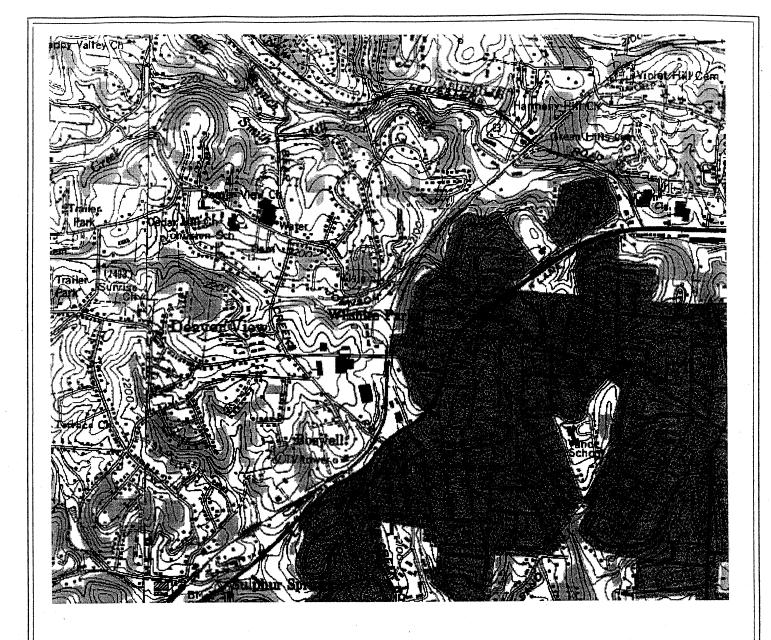
OVER TRIB TO MILL CREEK

WETLAND IMPACTS

SCALE AS SHOWN

10/15/2002

SHEET 1 OF 7



QUAD MAP OVERLAY

WETLAND SITE MAP

<u>NORTH CAROLINA</u> DEPARTMENT OF HIGHWAYS

BUNCOMBE COUNTY

8.2844101 (B-3516)

REPLACEMENT BRIDGE NO.740

AND APPROACHES ON SR 1319 (JOHNSTON BLVD.)

OVER TRIB TO MILL CREEK

SCALE AS SHOWN

10/15/2002

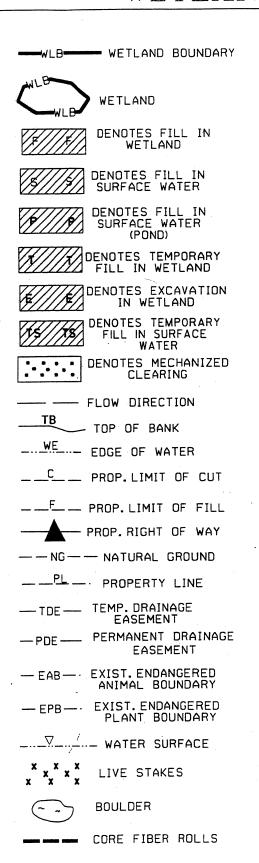
SHEET 2 OF 7



0 1/4 1/2 SCALE IN MILES

WETLAND

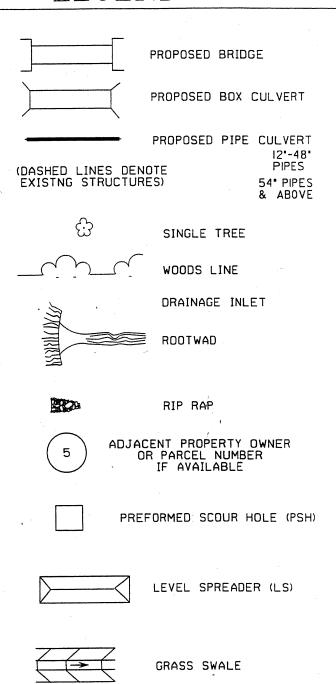
LEGEND



SPECIAL DITCH

GRADE

SDG

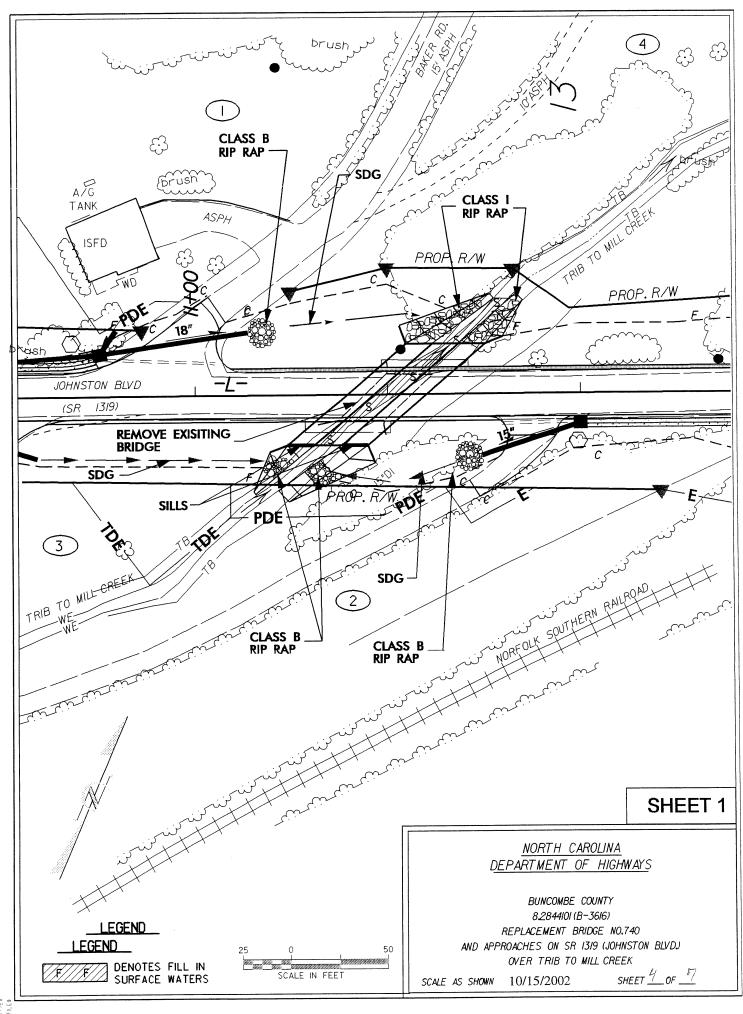


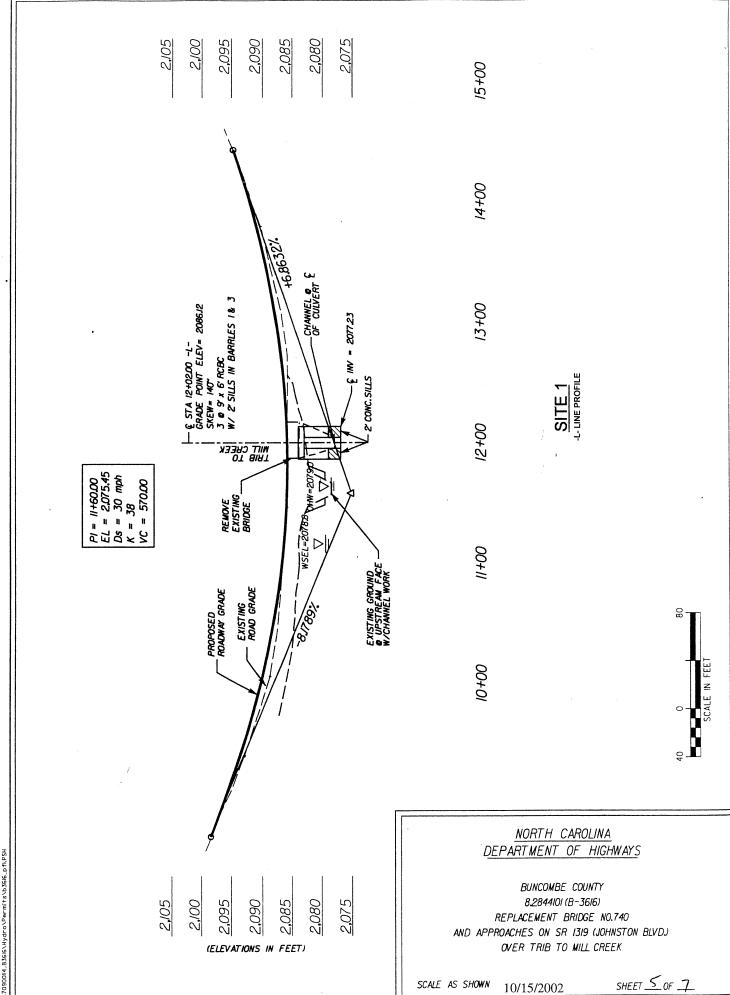
<u>NORTH CAROLINA</u> <u>DEPARTMENT OF HIGHWAYS</u>

BUNCOMBE COUNTY
8.2844101 (B-3616)
REPLACEMENT BRIDGE NO.740
AND APPROACHES ON SR 1319 (JOHNSTON BLVD)
OVER TRIB TO MILL CREEK

SCALE AS SHOWN 10/15/2002

SHEET 3 OF 7





12/31/2002 10:34:33 AM g:\70900II4_B36i6\Hydro\Permits\b36i6_pfI.PSH

			WE	WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS	IMPACTS	TSUMMARY		SURFA	SURFACE WATER IMPACTS	PACTS	
Site No.	Station (From/To)	Structure Size / Type	Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III)	Fill In SW (Natural) (ac)	Fill In SW (Pond)	Temp. Dewatering (ft)	Existing Channel Impacted (ft)	Natural Stream Design (ft)
-	12+02-L-	CULVERT FILL		(200)					55	119	
									1		
TOTALS:			00:00	0.00	0.00	0.00	0.00	0.00	25.00	119.00	0.00
								NC DEP	NC DEPARTMENT OF TRANSPORTATION	OF TRANSI	PORTATION
									BUNCON PROJECT 8.	BUNCOMBE COUNTY PROJECT 8.2844101 B-3616	A1.5
	Form Revised 3/22/01							 SHEET	7 OF 7		3/30

SUMMARY OF AFFECTED PROPERTY OWNERS

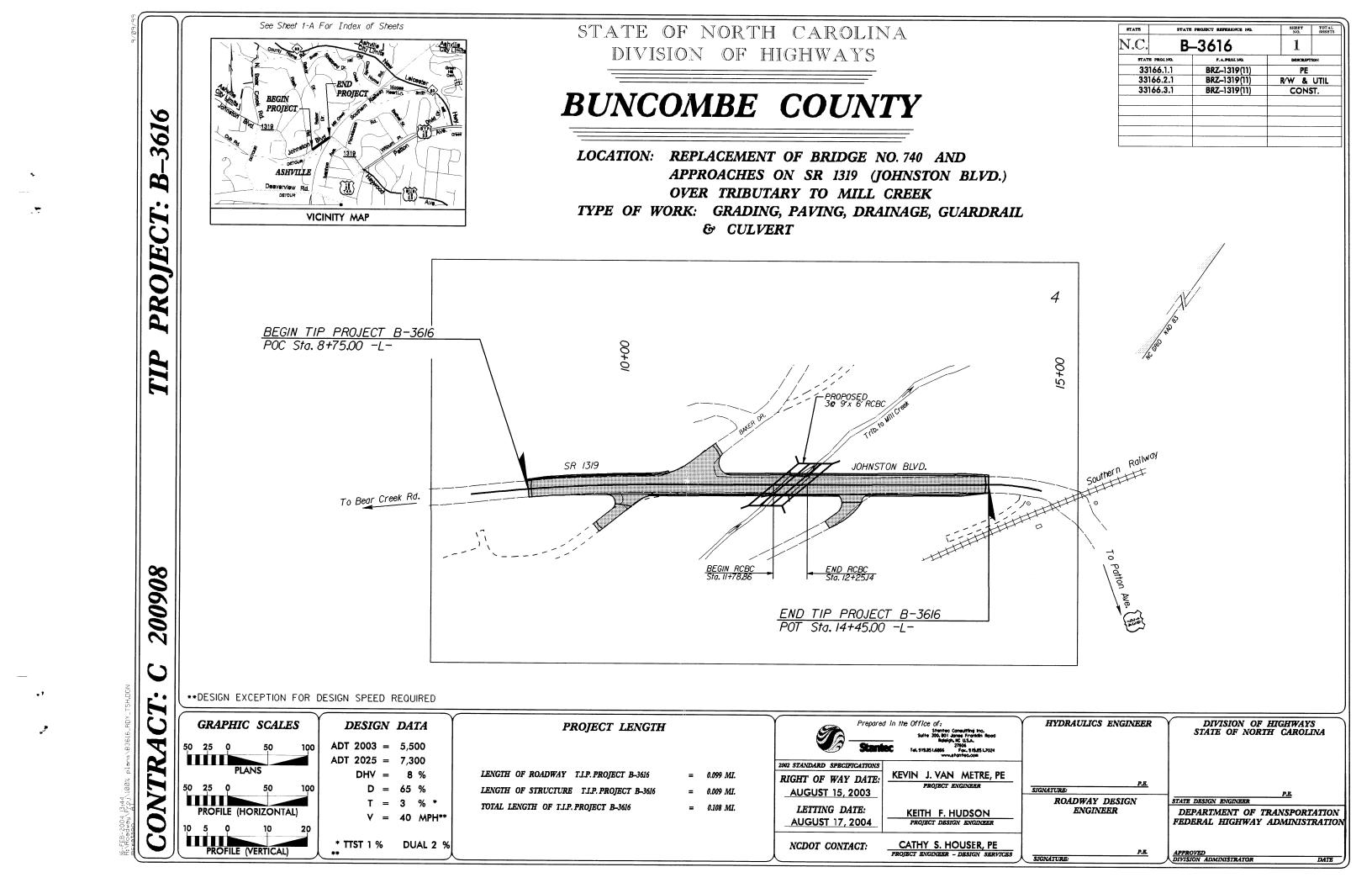
TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
	ALLISON C. PEREZ	127 CRANFORD RD ASHEVILLE, NC 28806	l
2	WEST CONGREGATION OF JEHOVAH'S WITNESSES	8 MERLIN WAY ASHEVILLE, NC 28806	l
3	ROBERT C AND BABRBARA F BIESTERFEDLT	568 HAYWOOD RD ASHEVILLE, NC 28806	
4	GEORGE W AND IRENE B	IO5 JOHNSTON BLVD ASHEVILLE, NC 28806	· ·
	. 1	† /	·

<u>NORTH CAROLINA</u> DEPARTMENT OF HIGHWAYS

BUNCOMBE COUNTY
8.2844101 (B-3616)
REPLACEMENT BRIDGE NO.740
AND APPROACHES ON SR 1319 (JOHNSTON BLVD.)
OVER TRIB TO MILL CREEK

SCALE AS SHOWN

SHEET 6 OF 7



Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

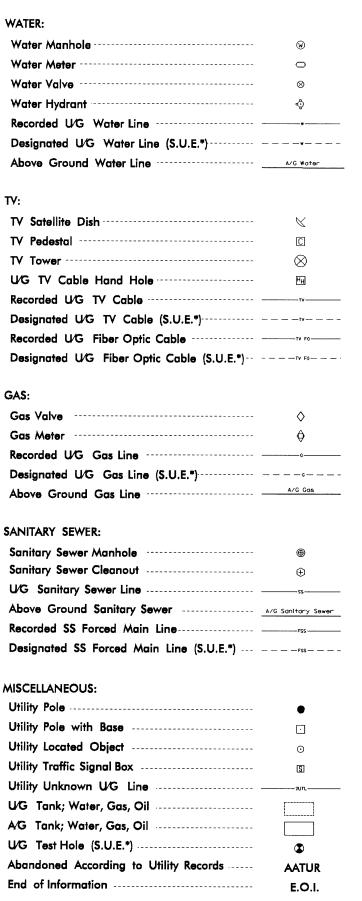
DIVISION OF HIGHWAYS

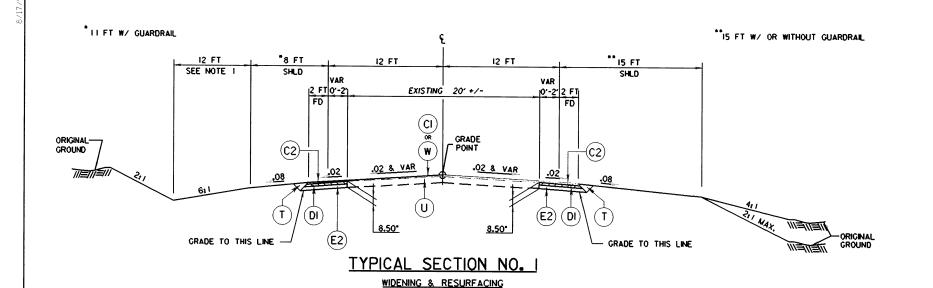
STATE OF NORTH CAROLINA

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:		RAILROADS:	
State Line		Standard Guage	- + + + + + + + + + + + + + + + + + + +
County Line ····		RR Signal Milepost	CSX TRANSPORTATION
Township Line		Switch	MILL 031 33
City Line		RR Abandoned ·····	SWITCH
Reservation Line		RR Dismantled	
Property Line	-	RR Districtined	
Existing Iron Pin	<u>O</u>	RIGHT OF WAY:	
Property Corner	×	Baseline Control Point	
Property Monument		Existing Right of Way Marker	\triangle
Parcel/Sequence Number ·····	=-	Existing Right of Way Line	
Existing Fence Line	×××-	Proposed Right of Way Line	
Proposed Woven Wire Fence		Proposed Right of Way Line with Iron Pin and Cap Marker	<u></u> ★
Proposed Chain Link Fence		Proposed Right of Way Line with	•
Proposed Barbed Wire Fence		Concrete or Granite Marker	*************************************
Existing Wetland Boundary		Existing Control of Access	——(<u>Ē</u>)——
Proposed Wetland Boundary		Proposed Control of Access	
Existing High Quality Wetland Boundary		Existing Easement Line	——Е——
Existing Endangered Animal Boundary	EAB	Proposed Temporary Construction Easement	E
Existing Endangered Plant Boundary	EP8	Proposed Temporary Drainage Easement	TDE
BUILDINGS AND OTHER CULT	TIDE.	Proposed Permanent Drainage Easement	PDE
		Proposed Permanent Utility Easement	PUE
Gas Pump Vent or U/G Tank CapSign		DOADS AND DELATED EDATED	770
Well	3	ROADS AND RELATED FEATUR	
Small Mine	"	Existing Edge of Pavement	
Foundation ·		Existing Curb	
Area Outline	·———	Proposed Slope Stakes Cut	
Cemetery ·····		Proposed Slope Stakes Fill	
Building	<u> </u>	Proposed Wheel Chair Ramp	
School		Curb Cut for Future Wheel Chair Ramp	
		Existing Metal Guardrail	
Church ·····	لـــــا	Proposed Guardrail	
Dam	-	Existing Cable Guiderail	
HYDROLOGY:		Proposed Cable Guiderail	
Stream or Body of Water		Equality Symbol	lacktriangle
Hydro, Pool or Reservoir		Pavement Removal	\bowtie
River Basin Buffer	RBB	VEGETATION:	
Flow Arrow		Single Tree	·
Disappearing Stream	>	Single Shrub	- 8
Spring		Hedge ·	
Swamp Marsh	,	Woods Line	
Proposed Lateral, Tail, Head Ditch	<u> </u>	Orchard	· 🗗 🗗 🗗 🛱
False Sump	\bigoplus	Vineyard	Vineyard

EXISTING STRUCTURES: MAJOR: Bridge, Tunnel or Box Culvert ----- [Bridge Wing Wall, Head Wall and End Wall --) CONC WW (MINOR: Head and End Wall -----Pipe Culvert Drainage Box: Catch Basin, DI or JB -----Paved Ditch Gutter -----Storm Sewer Manhole -----Storm Sewer ------**UTILITIES:** POWER: Existing Power Pole -----Proposed Power Pole -----Existing Joint Use Pole -----Proposed Joint Use Pole -----Power Manhole -----Power Line Tower -----Power Transformer ----- \square U/G Power Cable Hand Hole -----H-Frame Pole -----Recorded U/G Power Line -----Designated U/G Power Line (S.U.E.*) ------TELEPHONE: Existing Telephone Pole -----Proposed Telephone Pole ·----**-**0-Telephone Manhole Telephone Booth -----Telephone Pedestal Telephone Cell Tower -----U/G Telephone Cable Hand Hole -----Recorded U/G Telephone Cable -----Designated U/G Telephone Cable (S.U.E.*) -- -----Recorded U/G Telephone Conduit Designated U/G Telephone Conduit (S.U.E.*)- ------Recorded U/G Fiber Optics Cable -----Designated U/G Fiber Optics Cable (S.U.E.*)- ----





TO STATION

11+10.00

14+45.00

REMARKS SEE INSERT SEE INSERT PROJECT REFERENCE NO.

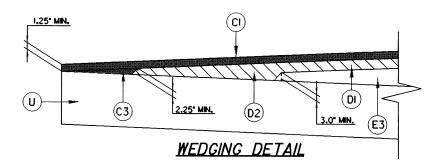
B-36/6

2

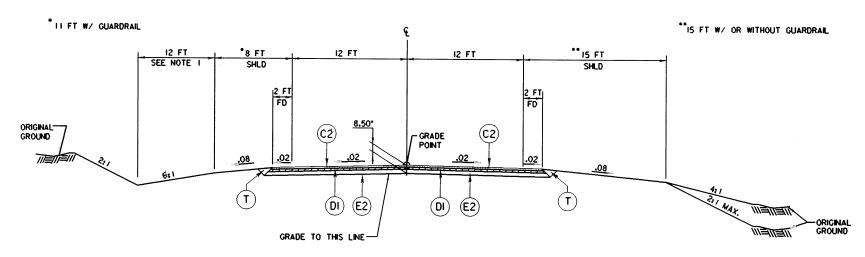
PAVEMENT DESIGN
ENGINEER

ROADWAY DESIGN
ENGINEER





	PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.			
C2	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.			
СЗ	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER 8Q. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.			
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.			
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.25" OR GREATER THAN 4" IN DEPTH.			
E1	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.			
E2	PROP. APPROX. 3.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.			
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5.5" IN DEPTH OR LESS THAN 3" IN DEPTH.			
J1	PROPOSED 6" AGGREGATE BASE COURSE.			
R1	CONCRETE EXPRESSWAY GUTTER			
Т	EARTH MATERIAL			
U	EXISTING PAVEMENT			
W	WEDGING (SEE DETAIL THIS SHEET)			

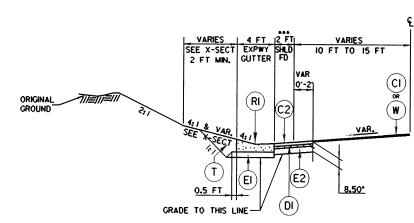


TYPICAL SECTION NO. 2

NEW PAVEMENT

 ROADWAY
 FROM STATION
 TO STATION

 -L II+I0.00
 12+50.00



ROADWAY FROM STATION

8+75.00

12+50.00

-L-

ORIGINAL GROUND T CRADE TO DRAIN ORIGINAL GROUND TYPICAL SECTION NO. 3 PRIVATE ENTRANCE

INSERT A

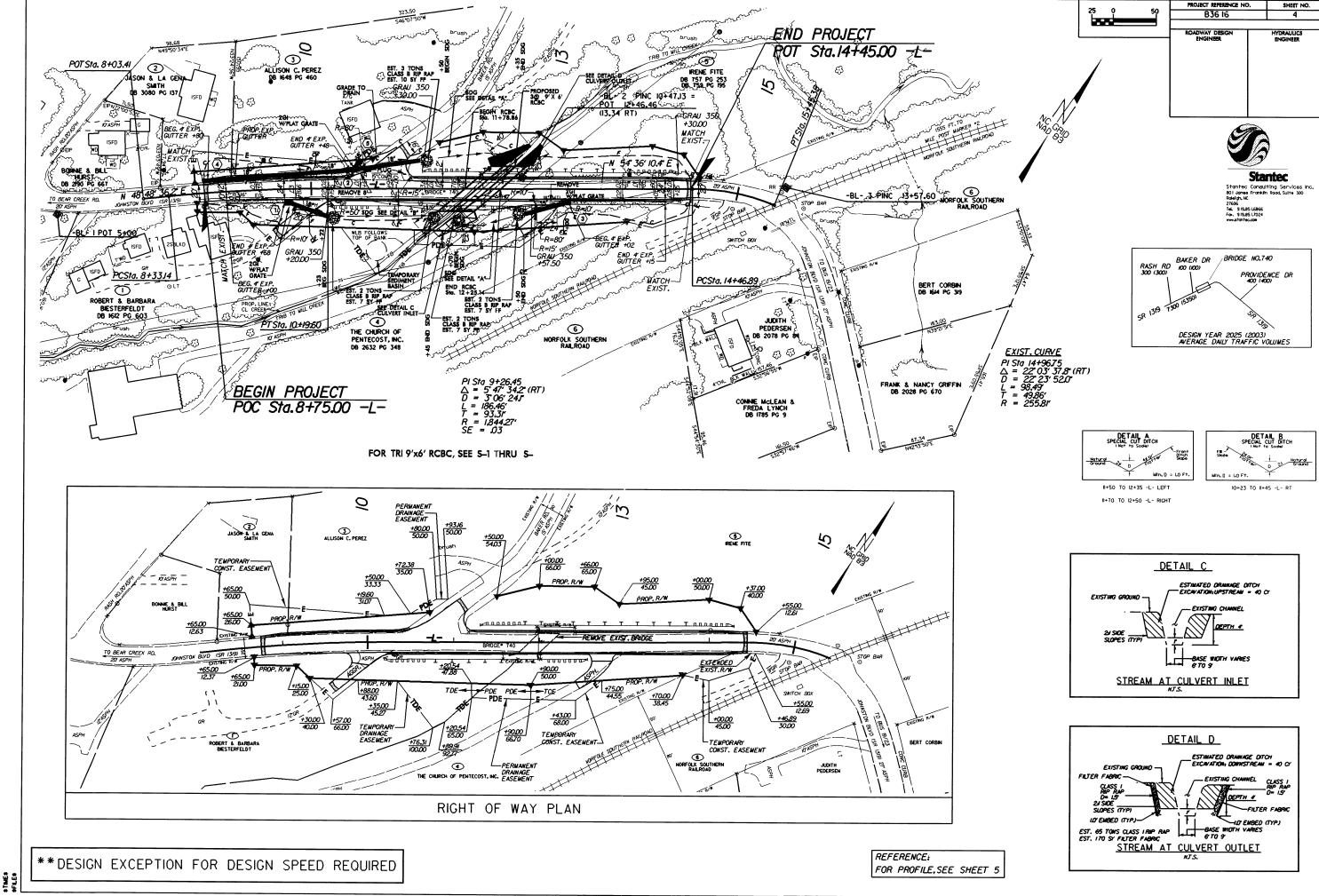
OADWAY	FROM STATION	TO STATION	SIDE
-L-	8+80.00	10+48.00	LT
-L-	9+00.00	9+68.00	RT**
-L-	13+02.00	14+15.00	RT

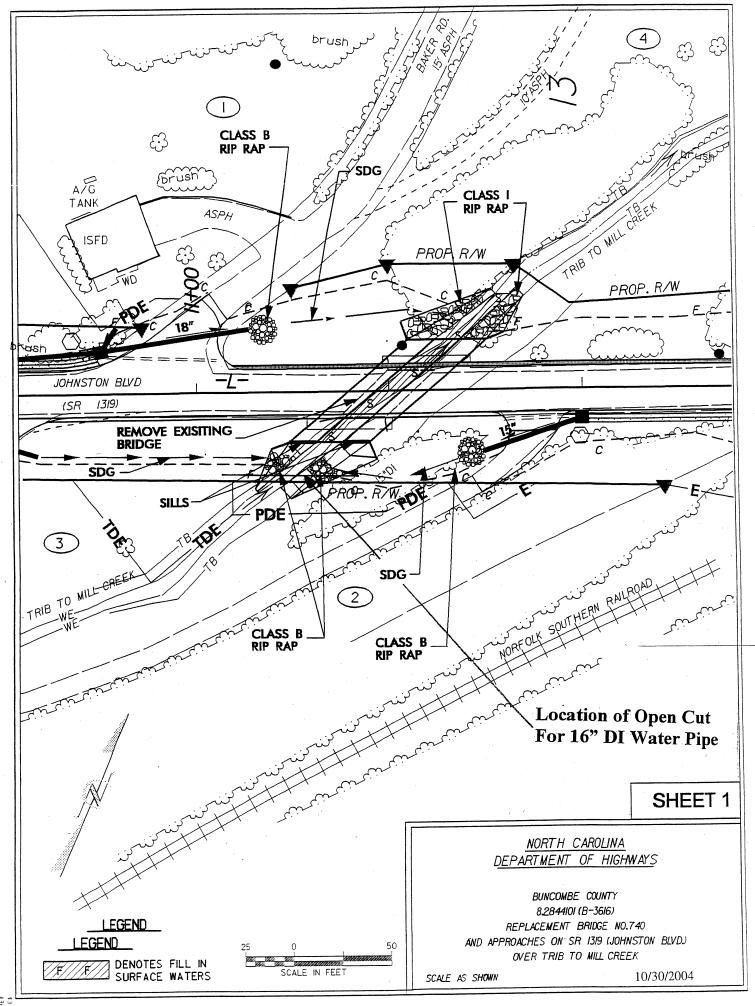
REMARKS

*** NO PAVED SHOULDER AT THIS LOCATION

NOTES:

- I. DISTANCE WILL VARY TO REACH THE DESIRED ELEVATION AS ESTABLISHED BY THE DITCH GRADE. (SEE PROFILES AND X-SECTIONS)
- 2. ALL PAVEMENT STRUCTURE SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.







United States Department of the Interior

FISH AND WILDLIFE SERVICE

Asheville Field Office 160 Zillicoa Street Asheville, North Carolina 28801 March 3, 2004

Mr. Lindsey Riddick
Environmental Supervisor
Office of Natural Resources
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Riddick:

Subject: Endangered Species Concurrence for Two Bridge Replacements in Buncombe County, North Carolina--B-3614, Bridge No. 300 on SR 1141 over Hominy Creek, and B-3616, Bridge No. 740 on SR 1319 over a Tributary to Mill Creek

As requested by the North Carolina Department of Transportation, we have reviewed the natural resources information and biological conclusions for federally protected species for the subject projects. We provide the following comments in accordance with the provisions of section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

We have reviewed the updated survey information provided for impacts to the federally threatened Virginia spiraea (*Spiraea virginiana*). Given the information provided, we agree that there will be no effect to federally listed species and believe the requirements under section 7(c) of the Act are fulfilled regarding listed species for the subject projects. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If you have questions about these comments, please contact Ms. Marella Buncick of our staff at 828/258-3939, Ext. 237. In any future correspondence concerning these projects, please reference our Log Numbers 4-2-04-118 for B-3614 and 4-2-04-119 for B-3616.

Sincerely,

Brian P. Cole

Field Supervisor